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In re Application of

Application Number

09/575172

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United States Patent Application Publication No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_

United States Patent Number 6839053, column \_\_\_\_\_, line \_\_\_\_\_, or

WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_

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US006839053B2

(12) **United States Patent**  
Lapstun et al.

(10) Patent No.: **US 6,839,053 B2**  
(45) Date of Patent: **\*Jan. 4, 2005**

(54) **HAND-DRAWING CAPTURE VIA  
INTERFACE SURFACE AND PROCESSING  
SENSOR**

(75) Inventors: **Paul Lapstun, Balmain (AU); Kia  
Silverbrook, Balmain (AU)**

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Balmain (AU)**

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-  
claimer.

(21) Appl. No.: **10/291,584**

(22) Filed: **Nov. 12, 2002**

(65) **Prior Publication Data**

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23, 2000.

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(51) Int. Cl.<sup>7</sup> ..... **G09G 5/00**

(52) U.S. Cl. .... **345/173; 345/156; 345/199;  
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(58) Field of Search ..... 345/173, 177,  
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(57) **ABSTRACT**

A method and system for enabling user interaction with  
computer software running in a computer system via an  
interface surface and a sensing device. The interface surface  
contains information relating to the computer software and  
coded data indicative of a drawing field. When placed in an  
operative position relative to the interface surface, the sens-  
ing device senses indicating data indicative of the drawing  
field and generates movement data indicative of the sensing  
device's movement relative to the interface surface. The  
indicating and movement data are received in the computer  
system from the sensing device. The drawing field is iden-  
tified and then the computer software is operated at least  
partly in reliance on the movement data, and in accordance  
with instructions associated with the drawing field.

**29 Claims, 40 Drawing Sheets**

